

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

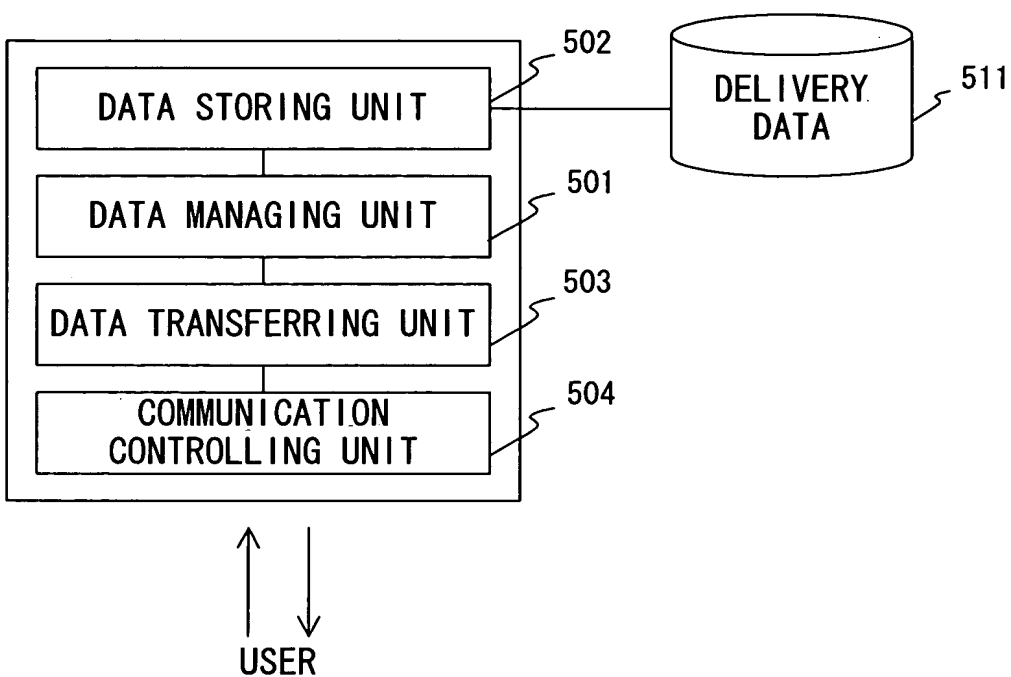


FIG. 1

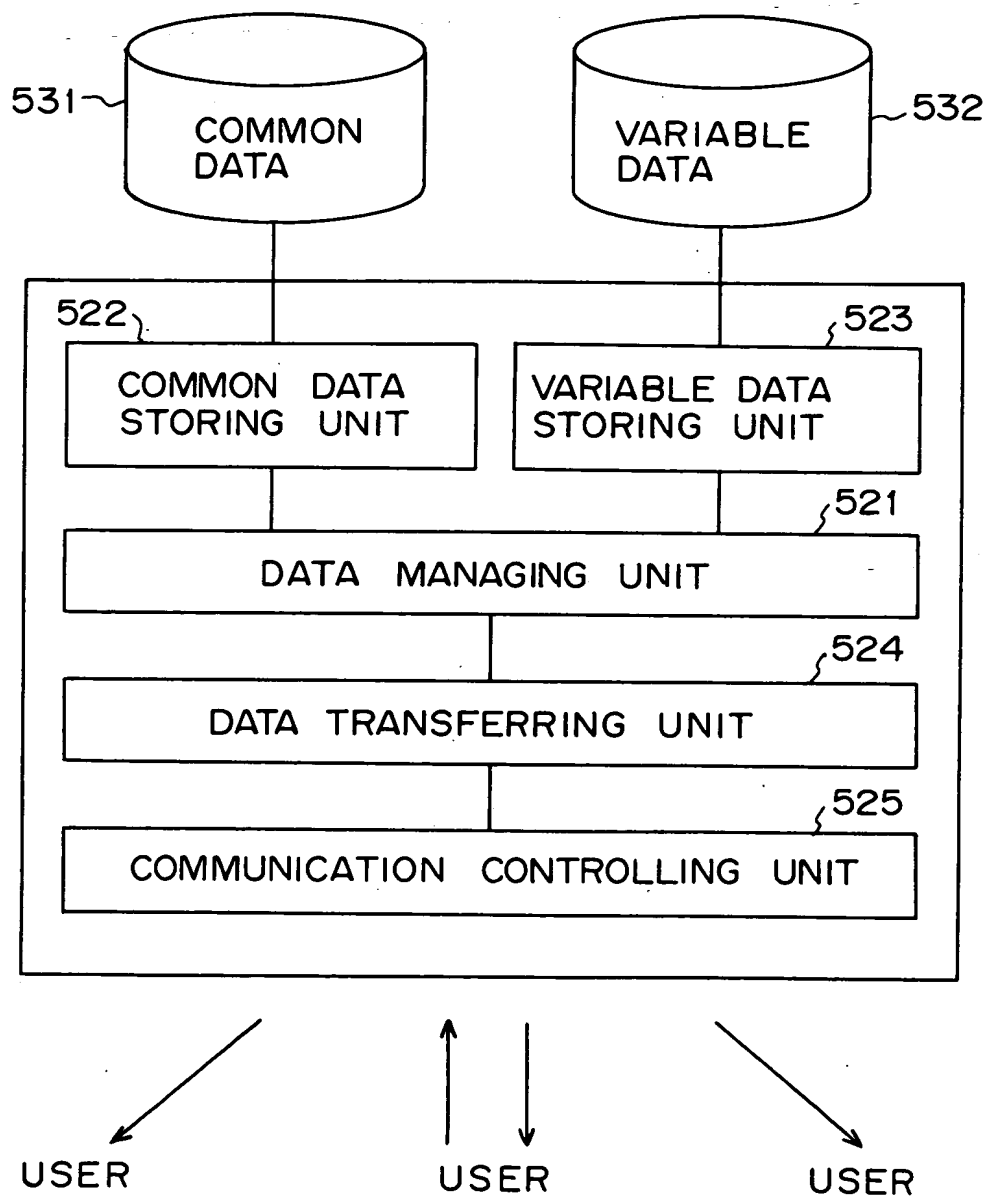
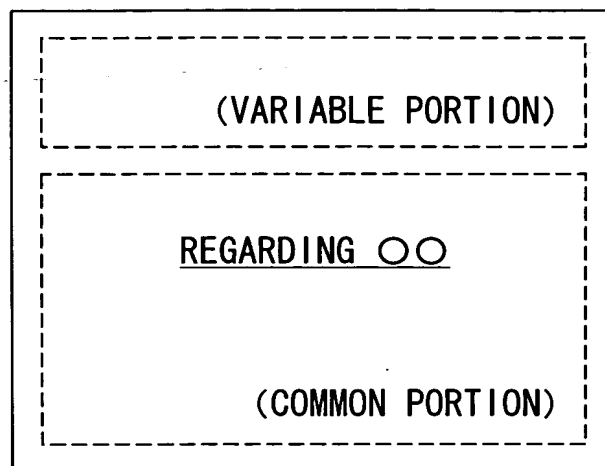


FIG. 2

001260-52279960



F I G. 3 A

ELEMENT DATA— 1	DESTINATION INFORMATION— 1
ELEMENT DATA— 2	DESTINATION INFORMATION— 2
ELEMENT DATA— 3	DESTINATION INFORMATION— 3
...	...
ELEMENT DATA— n	DESTINATION INFORMATION— n

F I G. 3 B

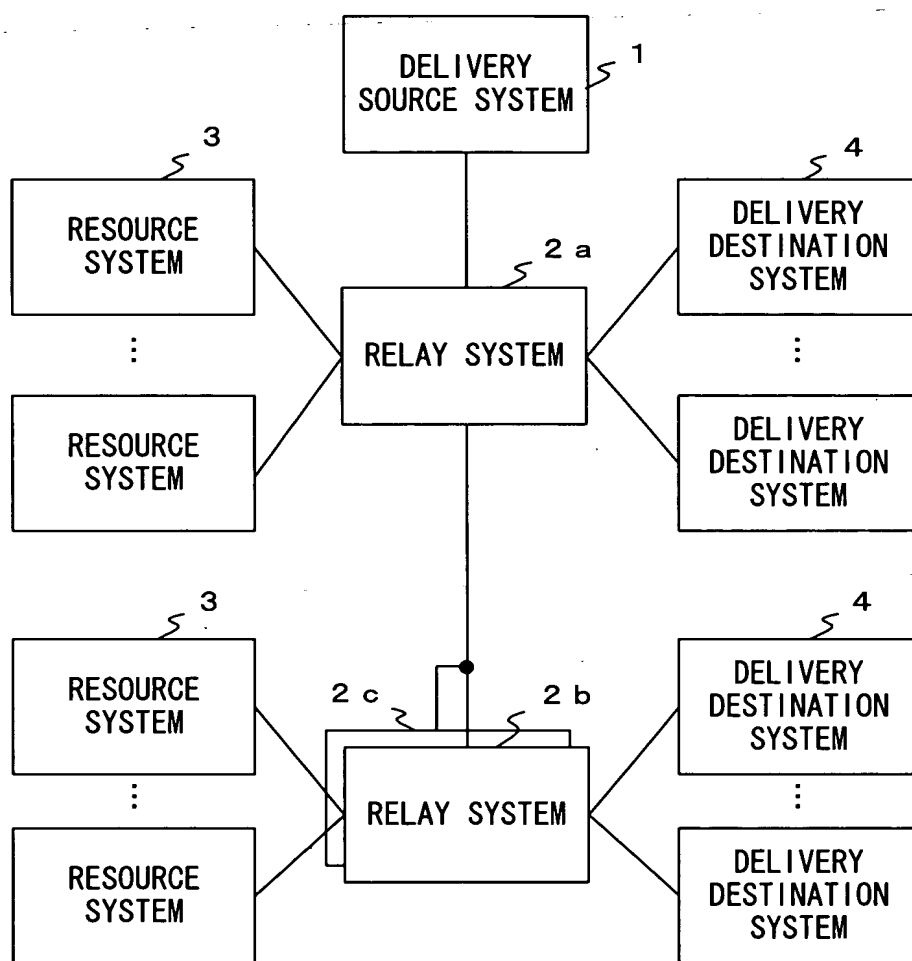
[illegible]

FIG. 4

001200-322/9900

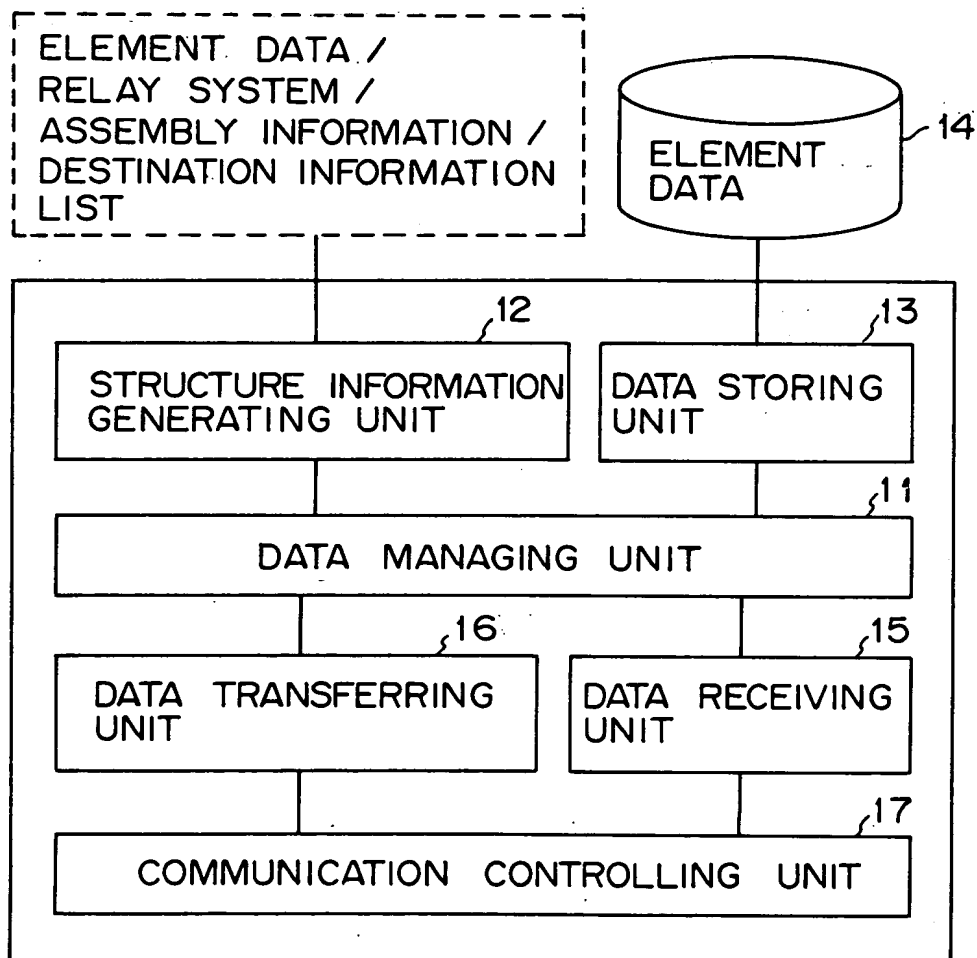


FIG. 5

```
graph TD; DB1[(DESTINATION DB 27)] --- U1[INQUIRING UNIT 25]; DB2[(ELEMENT DATA 24)] --- U2[DATA STORING UNIT 23]; U1 --- DMU[DATA MANAGING UNIT 22]; U2 --- DMU; DMU --- U3[DATA TRANSFERRING UNIT 26]; DMU --- U4[DATA RECEIVING UNIT 21]; U3 --- CCU[COMMUNICATION CONTROLLING UNIT 28]; U4 --- CCU;
```

FIG. 6

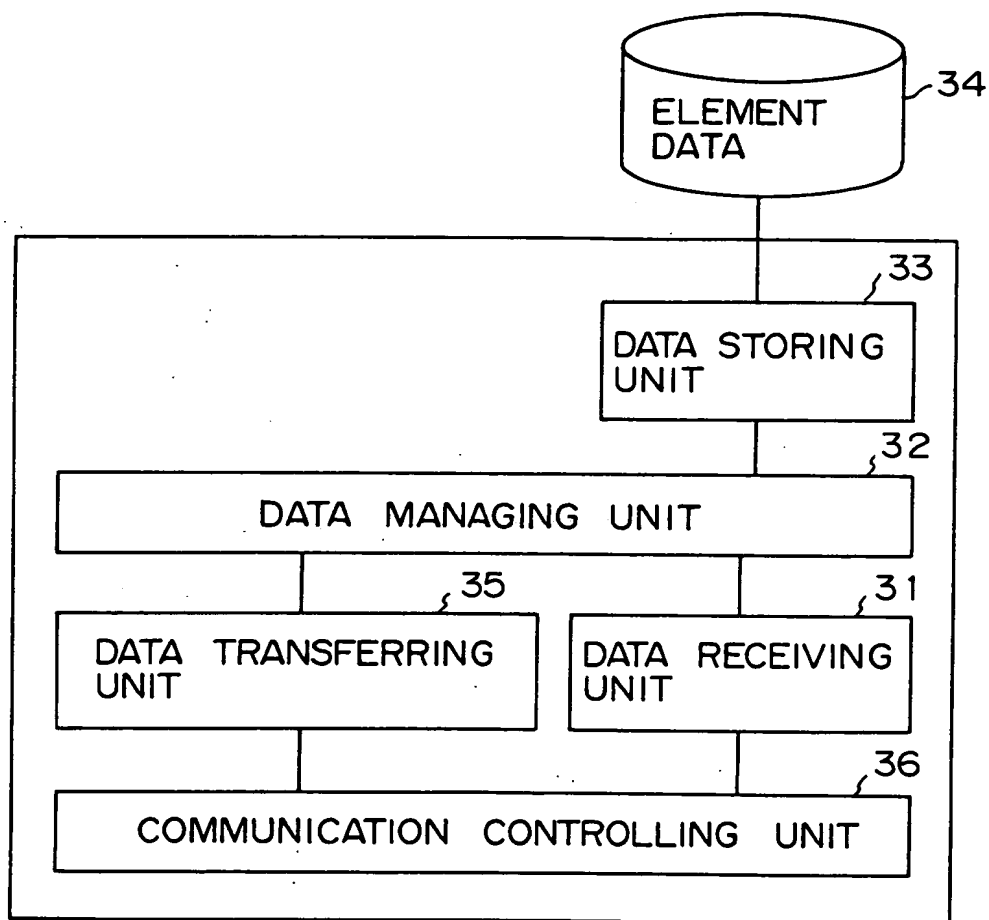
[illegible]

FIG. 7

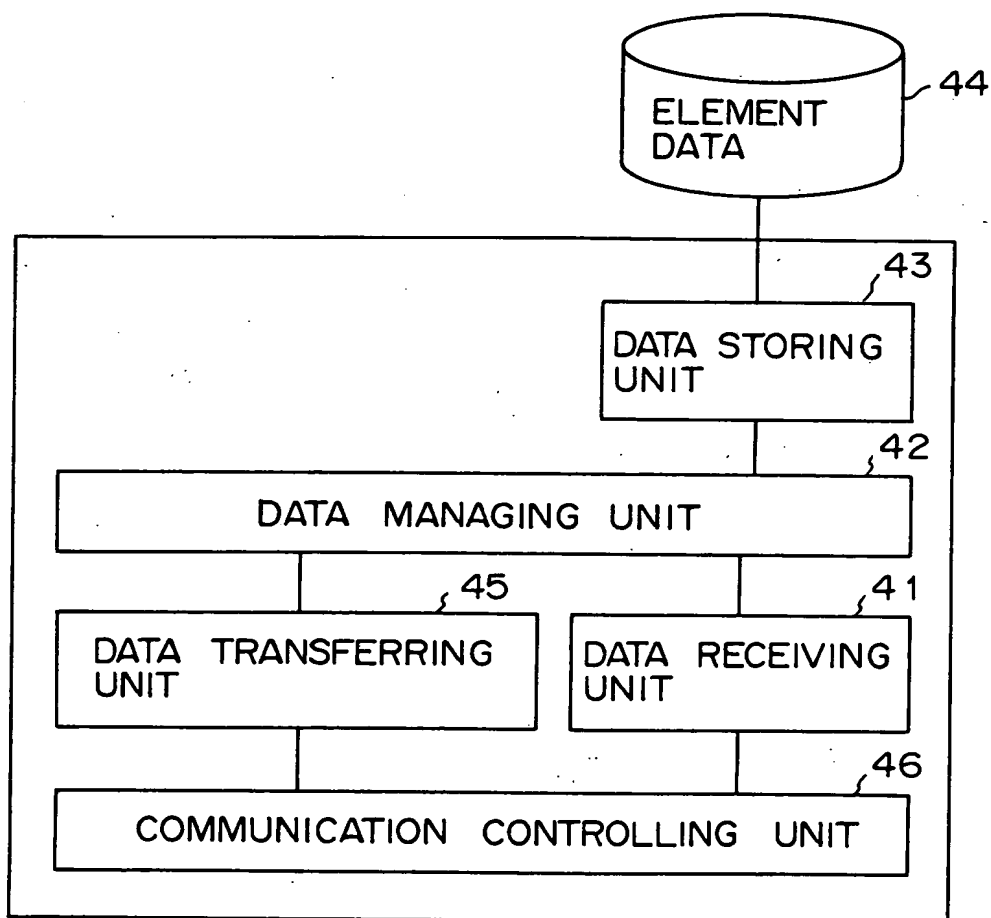
[illegible]

FIG. 8

50

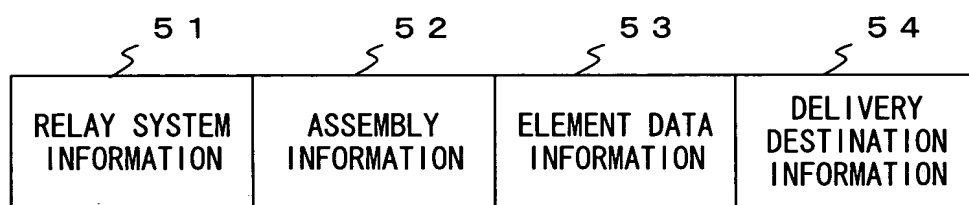
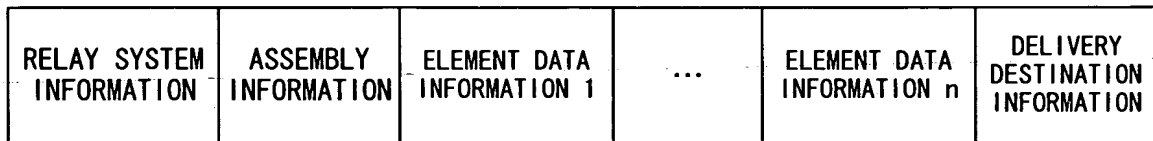
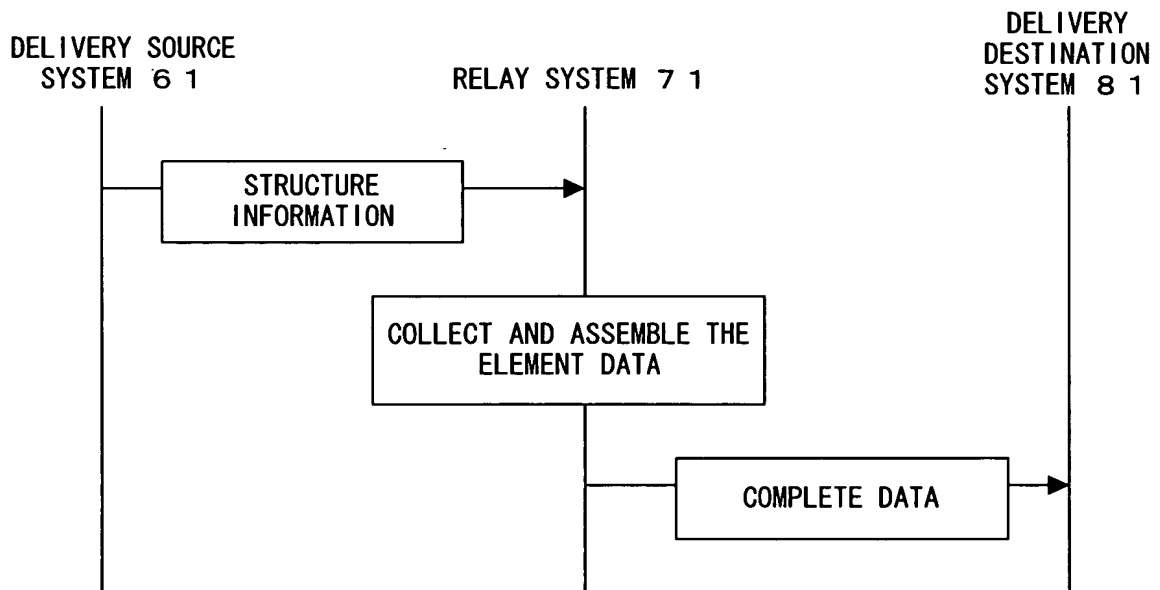


FIG. 9



F I G. 1 0 A



F I G. 1 0 B

001600 922/9960

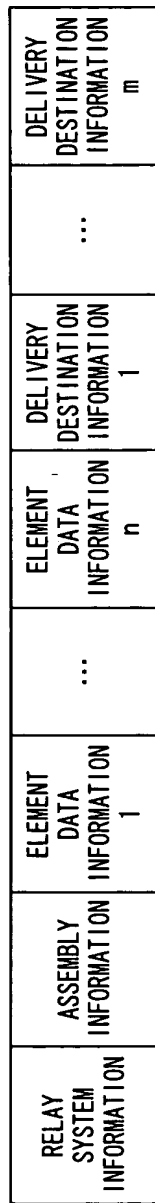


FIG. 11A

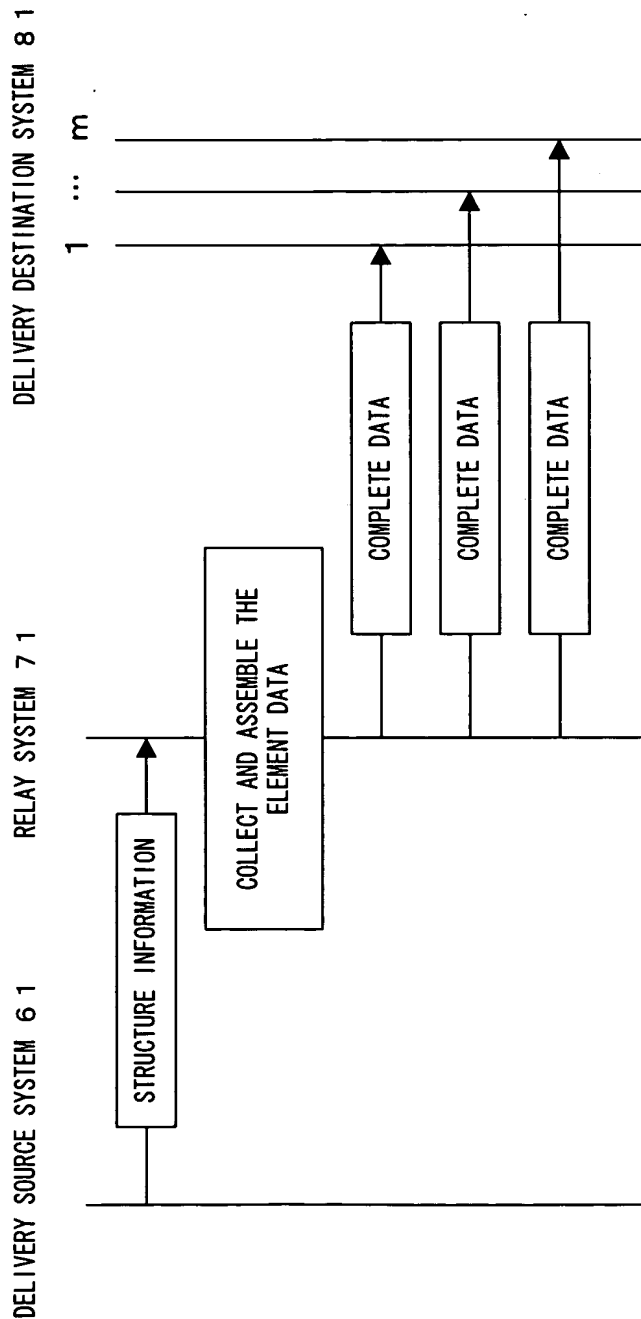
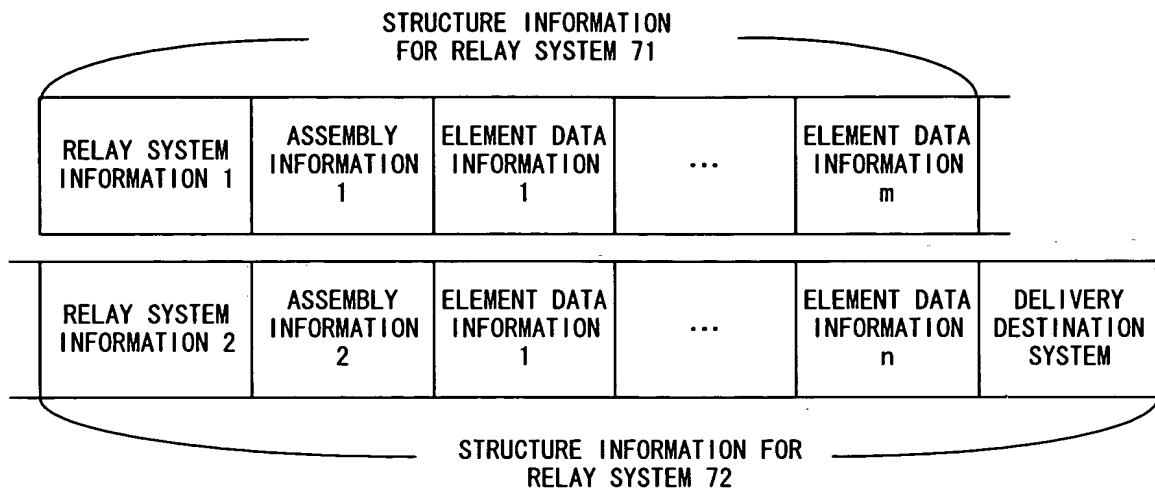
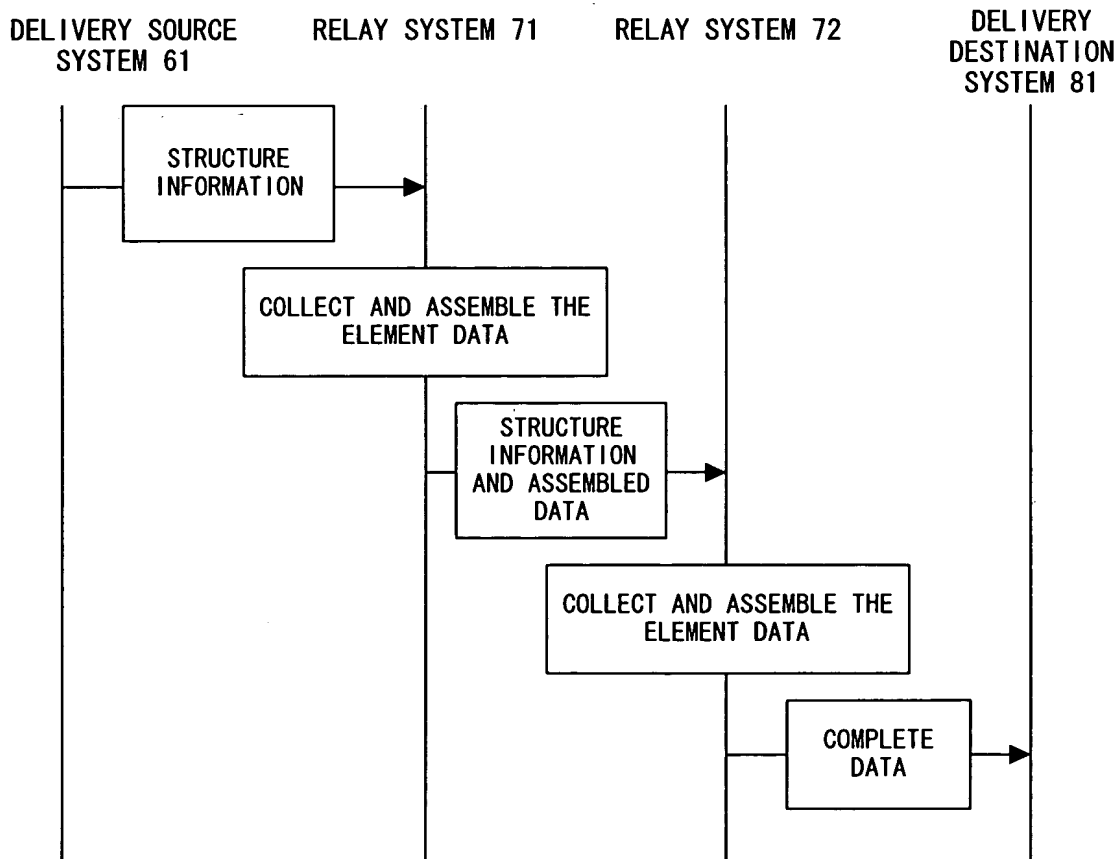


FIG. 11B



F I G. 1 2 A



F I G. 1 2 B

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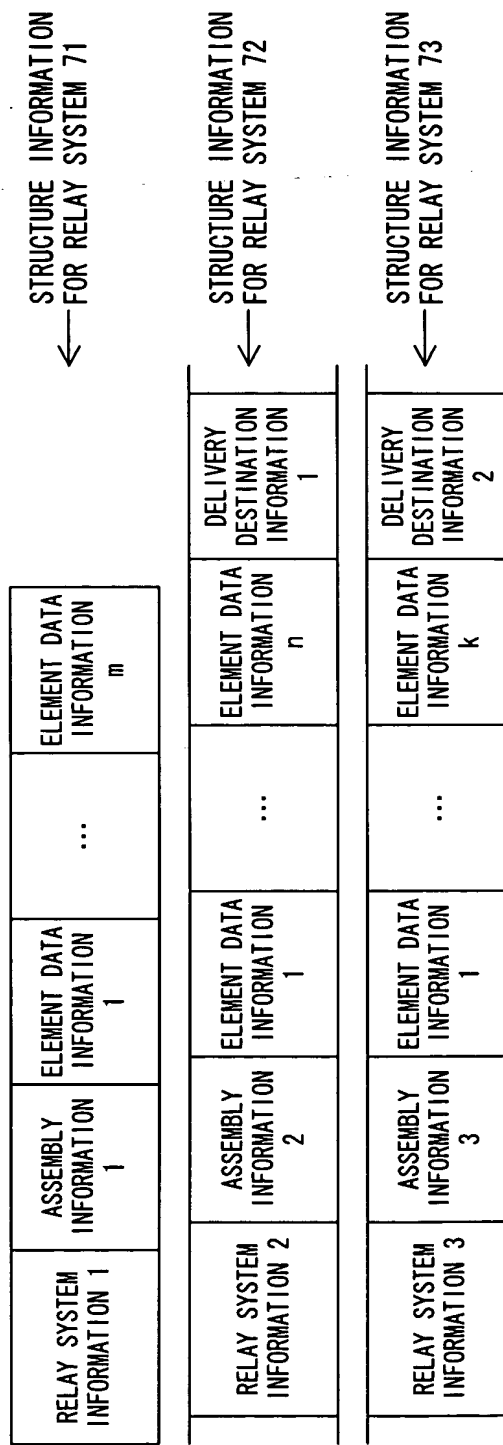


FIG. 13

001250-222990

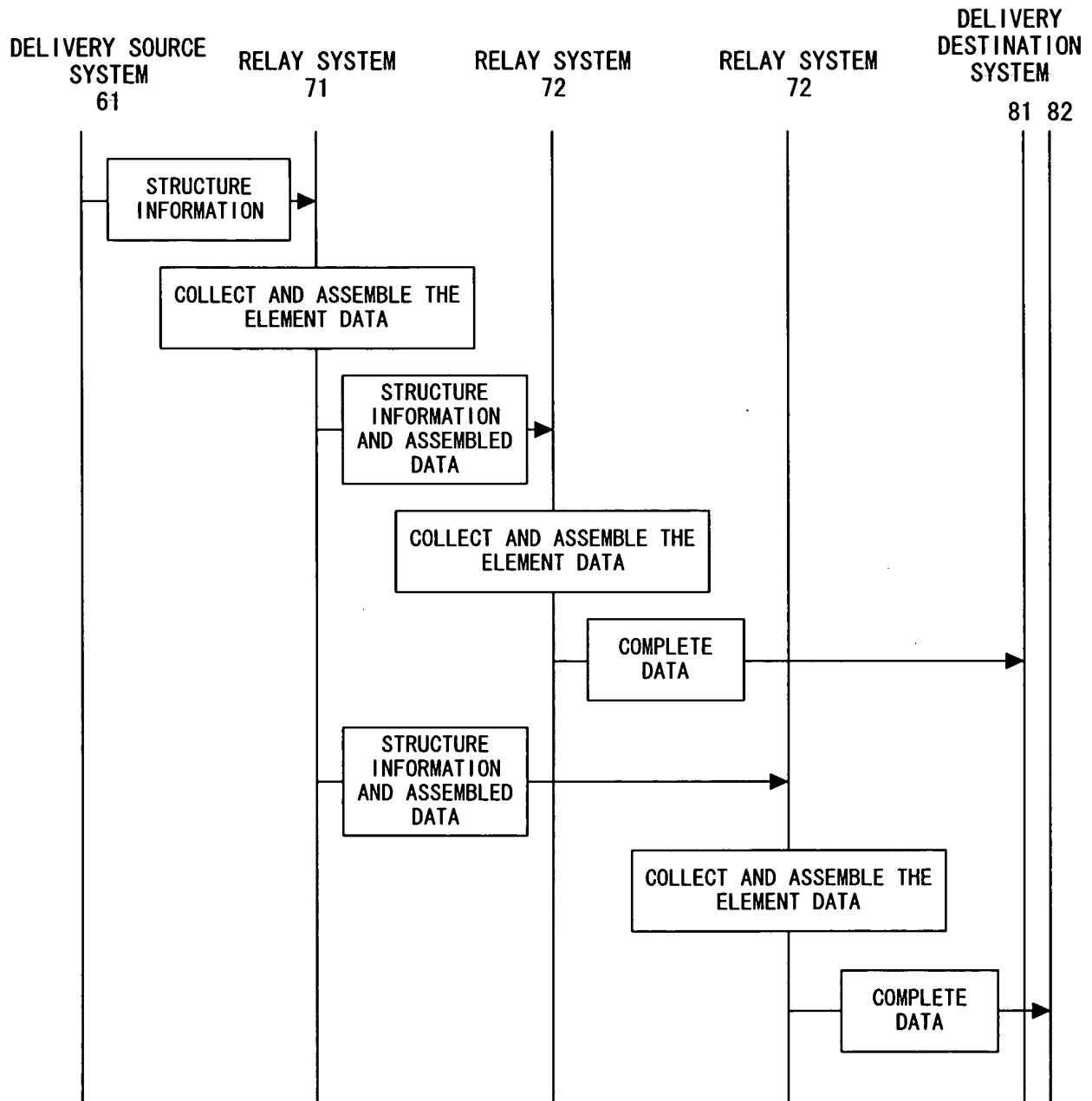


FIG. 14

RELAY SYSTEM INFORMATION 2	ASSEMBLY INFORMATION	ELEMENT DATA INFORMATION 1	...	ELEMENT DATA INFORMATION n	DELIVERY DESTINATION INFORMATION
-------------------------------	-------------------------	----------------------------------	-----	----------------------------------	--

RELAY SYSTEM INFORMATION INDICATES DELIVERY SOURCE SYSTEM

FIG. 15A

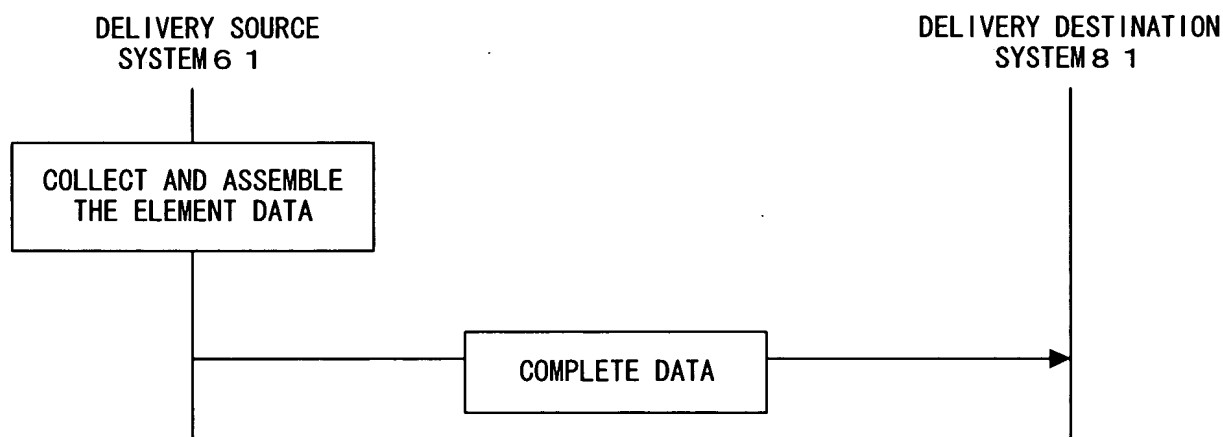


FIG. 15B

001260 9229900

RELAY SYSTEM INFORMATION 2	ASSEMBLY INFORMATION	ELEMENT DATA INFORMATION 1	...	ELEMENT DATA INFORMATION n	DELIVERY DESTINATION INFORMATION
-------------------------------	-------------------------	----------------------------------	-----	----------------------------------	--

RELAY SYSTEM INFORMATION INDICATES DELIVERY DESTINATION SYSTEM

FIG. 16A

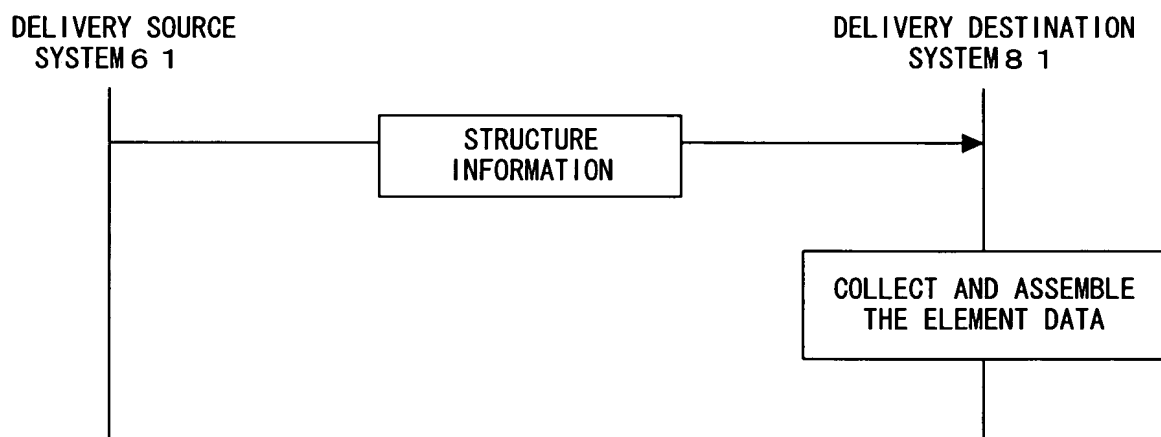


FIG. 16B

001200-52279960


```

graph TD
    START([START]) --> S1[RECEIVING RELAY SYSTEM  
INFORMATION, ASSEMBLY INFORMATION,  
AND ELEMENT DATA INFORMATION]
    S1 --> S2[GENERATING STRUCTURE  
INFORMATION]
    S2 --> S3{RELAY SYSTEM  
INFORMATION  
IS DESTINATION SOURCE  
SYSTEM ITSELF?}
    S3 -- YES --> S4[ANALYZING ELEMENT DATA  
INFORMATION]
    S3 -- NO --> S10{DELIVERY DESTINATION  
INFORMATION IS ATTACHED?}
    S4 --> S5{ELEMENT DATA  
INFORMATION IS DELIVERY  
SOURCE SYSTEM ITSELF?}
    S5 -- YES --> S6[OBTAINING ELEMENT DATA THROUGH  
DATA STORING UNIT]
    S5 -- NO --> S7[OBTAINING ELEMENT DATA  
FROM RESOURCE SYSTEM]
    S6 --> S8[ASSEMBLING ELEMENT DATA, AND  
GENERATING ASSEMBLED DATA]
    S7 --> S8
    S8 --> S9[UPDATING STRUCTURE INFORMATION]
    S9 --> S10
    S10 -- YES --> S11[DELIVERING ASSEMBLED  
DATA OR COMPLETE DATA  
TO DELIVERY  
DESTINATION SYSTEM]
    S10 -- NO --> S12[DELIVERING STRUCTURE  
INFORMATION OR STRUCTURE  
INFORMATION PLUS  
ASSEMBLED DATA TO RELAY  
SYSTEM]
    S11 --> END([END])
    S12 --> END
  
```

FIG. 17

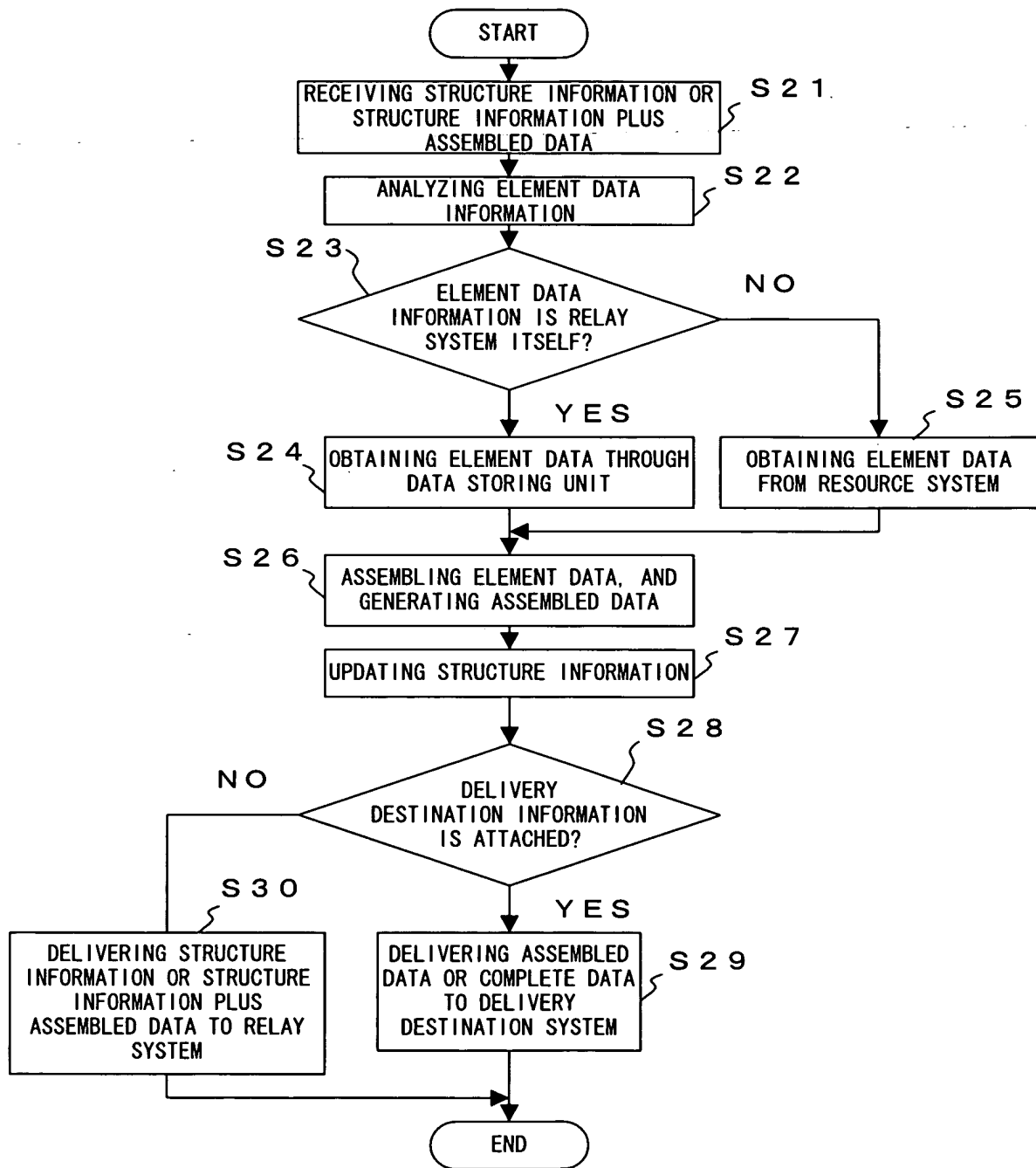


FIG. 18

```
graph TD; START([START]) --> S41[RECEIVING ELEMENT DATA TRANSFER REQUEST]; S41 --> S42[OBTAINING ELEMENT DATA THROUGH DATA STORING UNIT]; S42 --> S43[DELIVERING ELEMENT DATA TO REQUEST SOURCE]; S43 --> END([END]);
```

The flowchart illustrates the process of element data transfer. It begins with a 'START' terminal, followed by three sequential steps: 'RECEIVING ELEMENT DATA TRANSFER REQUEST' (labeled S 4 1), 'OBTAINING ELEMENT DATA THROUGH DATA STORING UNIT' (labeled S 4 2), and 'DELIVERING ELEMENT DATA TO REQUEST SOURCE' (labeled S 4 3). The process concludes at an 'END' terminal.

FIG. 19

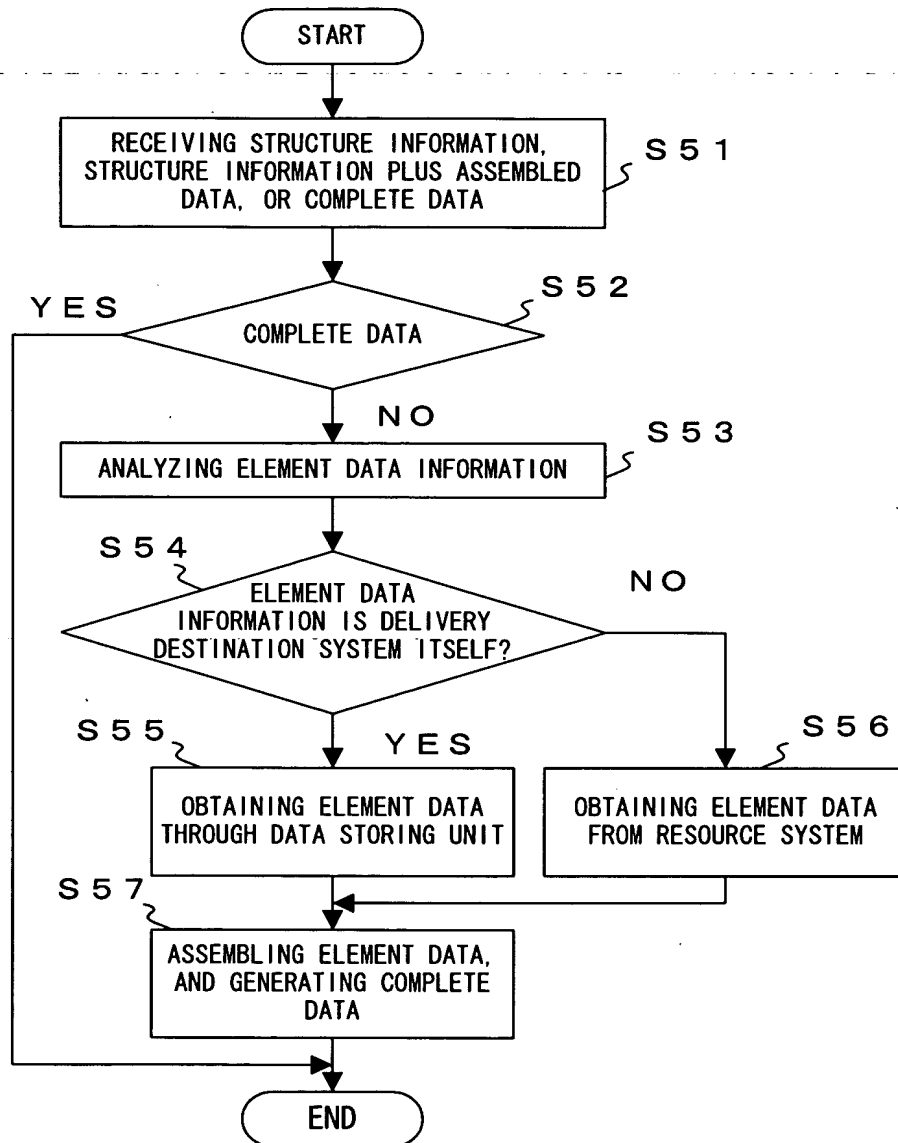


FIG. 20

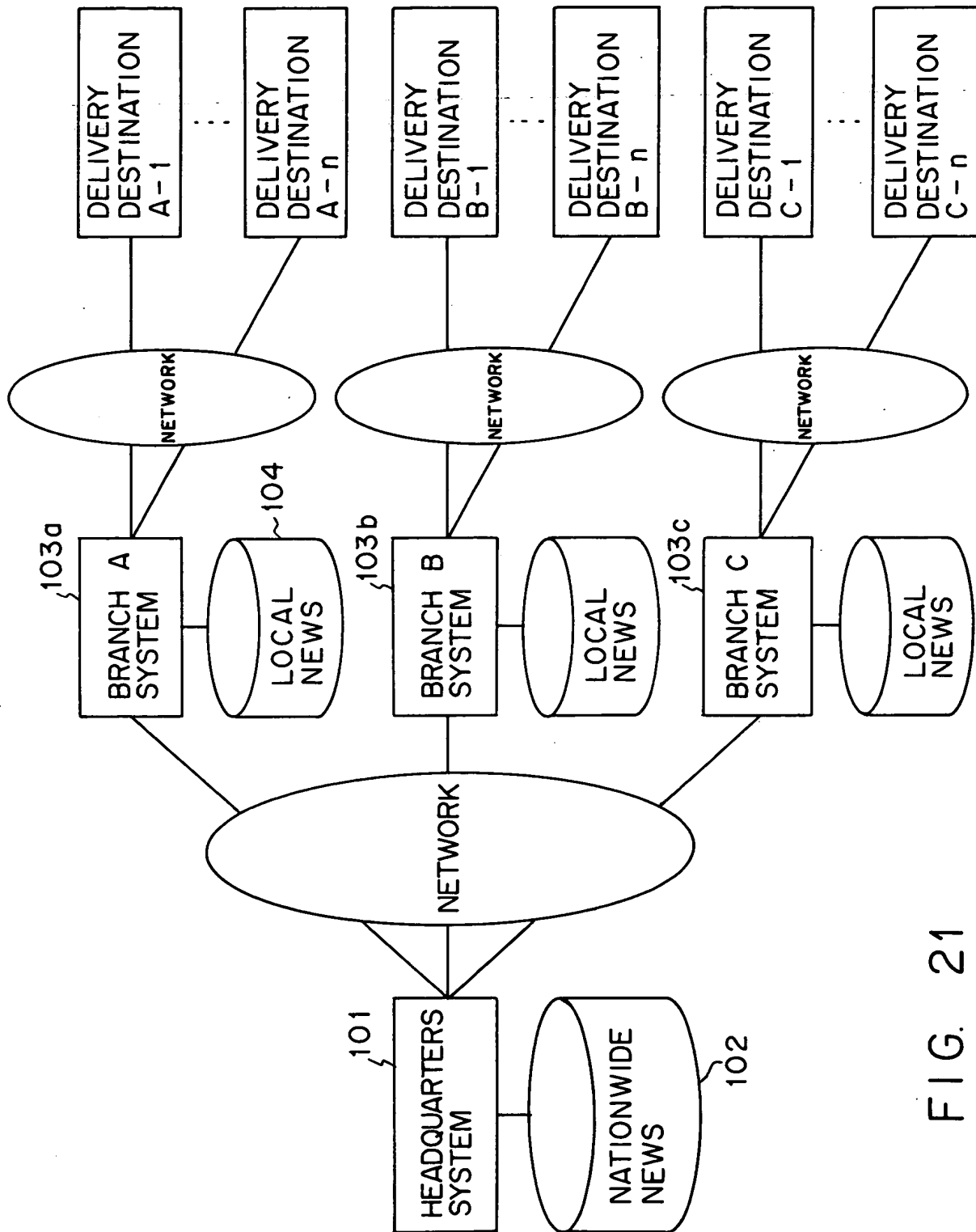


FIG. 21

001200 322450

HEADQUARTERS SYSTEM	ATTACH	NATIONWIDE NEWS			
BRANCH A SYSTEM	ASSEMBLED DATA + LOCAL NEWS	LOCAL NEWS	DELIVERY DESTINATION A-1	...	DELIVERY DESTINATION A-n
BRANCH B SYSTEM	ASSEMBLED DATA + LOCAL NEWS	LOCAL NEWS	DELIVERY DESTINATION B-1	...	DELIVERY DESTINATION B-n
BRANCH C SYSTEM	ASSEMBLED DATA + LOCAL NEWS	LOCAL NEWS	DELIVERY DESTINATION C-1	...	DELIVERY DESTINATION C-n

F I G. 2 2

001260-227990

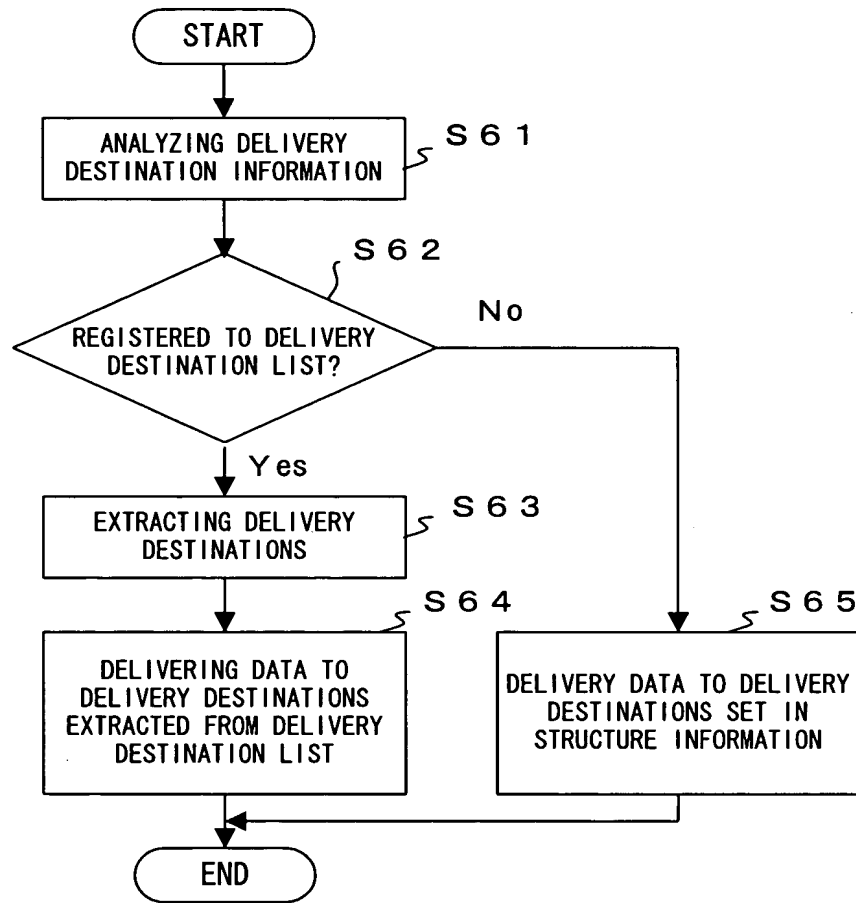
HEADQUARTERS SYSTEM	ATTACH	NATIONWIDE NEWS			
BRANCH A SYSTEM	ASSEMBLED DATA+LOCAL NEWS	LOCAL NEWS	SUBSCRIBER		
BRANCH B SYSTEM	ASSEMBLED DATA+LOCAL NEWS	LOCAL NEWS	SUBSCRIBER		
BRANCH C SYSTEM	ASSEMBLED DATA+LOCAL NEWS	LOCAL NEWS	SUBSCRIBER		

F I G . 2 3

001260-2225960

GROUP NAME	DELIVERY DESTINATION
SUBSCRIBERS	A - 1 A - 2 ⋮ A - n
BUSINESS PARTNERS	X - 1 X - 2 ⋮ X - m
}	}

F I G. 2 4



F I G. 2 5

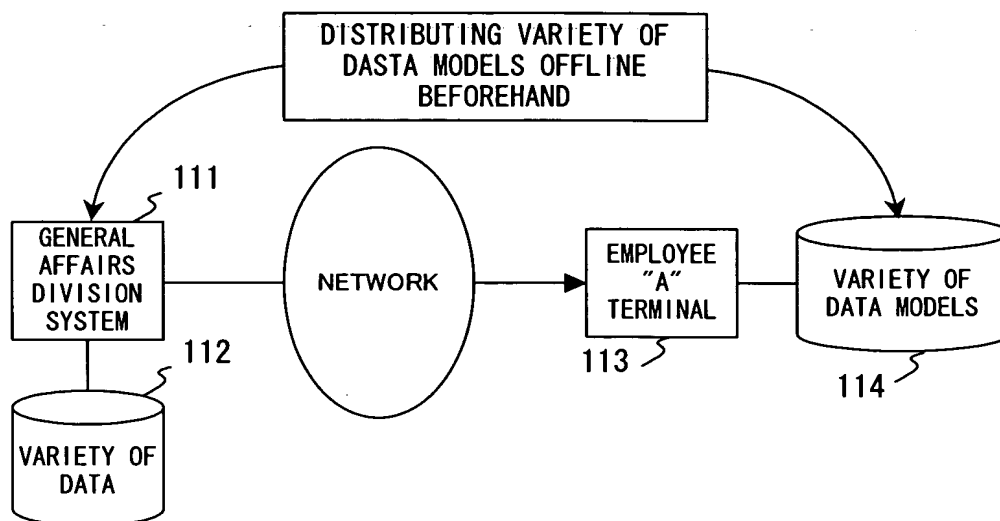


FIG. 26A

GENERAL AFFAIRS DIVISION SYSTEM	ATTACH	BUSINESS PERFORMANCE DATA	INTEROFFICE MEMO	BUSINESS TRIP EXPENSE ADJUSTMENT STATEMENT	
--	--------	---------------------------------	---------------------	---	--

EMPLOYEE "A" TERMINAL	ASSEMBLY INFORMATION	BUSINESS PERFORMANCE REPORT MODEL	INTEROFFICE MEMO MODEL	BUSINESS TRIP EXPENSE ADJUSTMENT STATEMENT MODEL	EMPLOYEE "A" TERMINAL
--------------------------	-------------------------	---	---------------------------	--	--------------------------

FIG. 26B

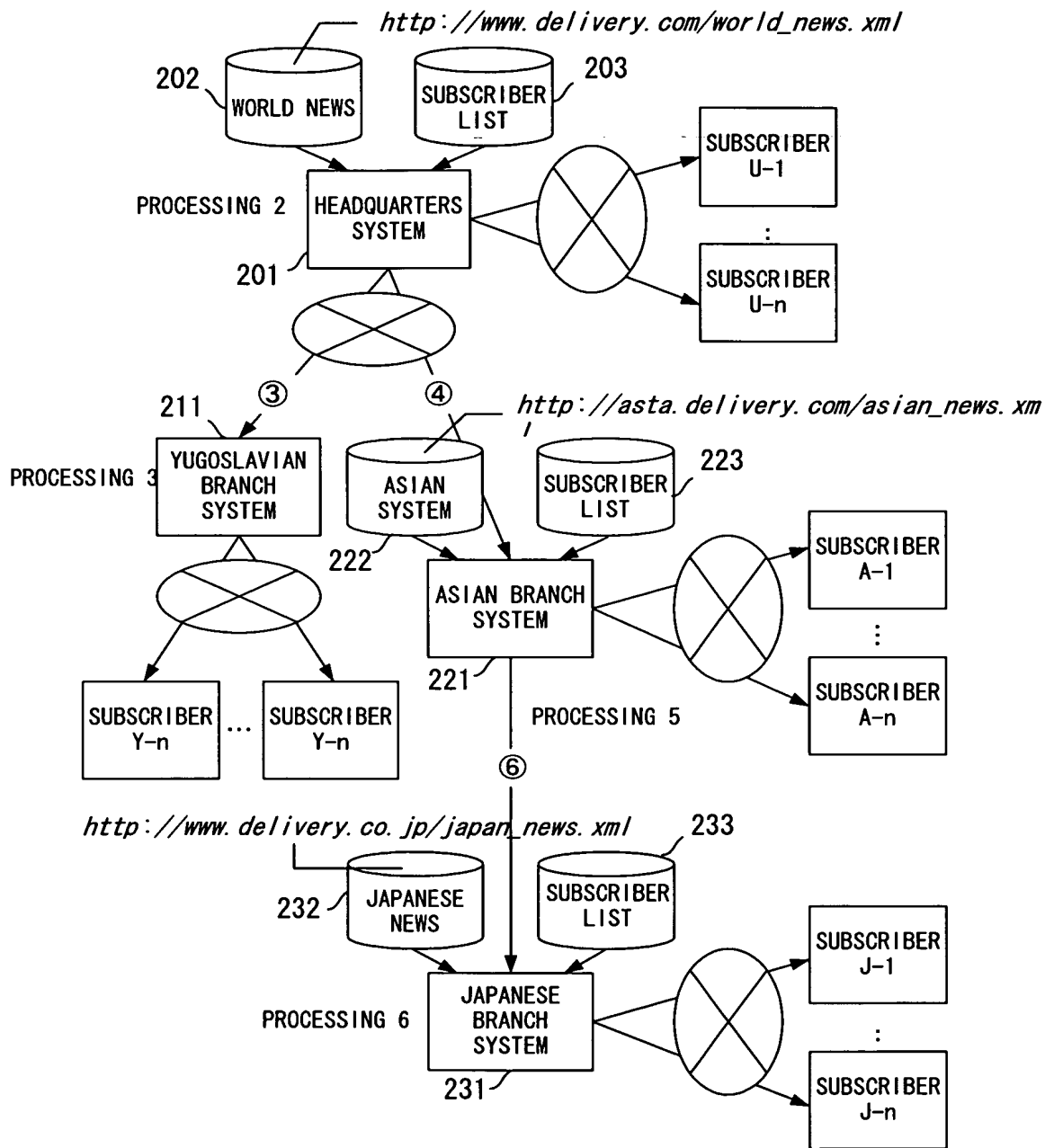


FIG. 27

<?xml version="1.0"?>
 <delivery_definition>
 <!--NewYork-->
 <delivery_info>
 <gateway>newyork@delivery.com</gateway>
 <structure>http://www.delivery.com/structure/news.xml</structure>
 <data_list>
 <news>http://www.delivery.com/world_news.xml</news>
 </data_list>
 <receptionist_list>
 <receptionist>U-1@foo.com</recetptionist>
 ...
 <receptionist>U-n@foo.com</recetptionist>
 </receptionist_list>
 <!--Yugoslavian-->
 <delivery_info>
 <gateway>yugo@delivery.com</gateway>
 <data_list>
 <news>news.xml</news>
 </data_list>
 <receptionist_list>
 <receptionist>Y-1@foo.com</recetptionist>
 ...
 <receptionist>Y-n@foo.com</recetptionist>
 </receptionist_list>
 </delivery_info>
 <!--Asia-->
 <delivery_info>
 <geteway>asia@delivery.com</gateway>
 <structure>http://asia.delivery.com/structure/news.xml</structure>
 <data_list>
 <news>news.xml</news>
 <news>http://asia.delivery.com/asian_news.xml</news>
 </data_list>
 <receptionist_list>
 <category>asia</category>
 </receptionist_list>
 <!--Japan-->
 <delivery_info>
 <gateway>japan@delivery.co.jp</gateway>
 <structure>http://www.delivery.co.jp/structure/japan.xml</structure>
 <data_list>
 <news>news.xml</news>
 <news>thhp://www.delivery.co.jp/japan_news.xml</news>
 </data_list>
 <receptionist_list>
 <category>japan</category>
 </receptionist_list>
 </delivery_info>
 </delivery_info>
 </delivery_definition>

FIG. 28


```
<!--Yugoslavian-->
<delivery_info>
  <gateway>yugo@delivery.com</gateway>
  <data_list>
    <news>news.xml</news>
  </data_list>
  <receptionist_list>
    <receptionist>Y-1@foo.com</receptionist>
    ...
    <receptionist>Y-n@foo.com</receptionist>
  </receptionist_list>
```

FIG. 30


```

<!--Japan-->
<delivery_info>
  <gateway>japan@delivery.co.jp</gateway>
  <structure>http://www.delivery.co.jp/structure/japan.xml</structure>
  <data_list>
    <news>news.xml</news>
    <news>http://www.delivery.co.jp/japan_news.xml</news>
  </data_list>
  <receptionist_list>
    <category>japan</category>
  </receptionist_list>

```

F I G. 3 2


```
<?xml version="1.0"?>
```

```
<daily_news>
```

```
<date>2xxx-xx-xx</date>
```

```
<edition>xx</edition>
```

```
<world_news>
```

```
.....
```

```
</world_news>
```

```
</daily_news>
```

F I G. 3 4

```
<?xml version="1.0"?>

<!DOCTYPE daily_news> [
<!ENTITY news SYSTEM "news.xml">
<!ENTITY asian_news SYSTEM "asian_news.xml">
]>

<dialy_news>
<date>2yyy-yy-yy</date>
<edition>yy</edition>
&asian_news;
&news;
</daily_news>
```

FIG. 35

```
<?xml version="1.0"?>
```

<daily_news>

<date>2yyy-yy-yy</date>

`<edition>yy</edition>`

<asian_news>

.....

</asian_news>

<daily_news>

<date>2xxx-xx-xx</date>

<edition>xx</edition>

<world_news>

.....

</world_news>

</daily_news>

</daily_news>

FIG. 36

```
<?xml version="1.0"?>

<!DOCTYPE daily_news> [
<!ENTITY news SYSTEM "news.xml">
<!ENTITY japan_news SYSTEM "japan_news.xml">
]>

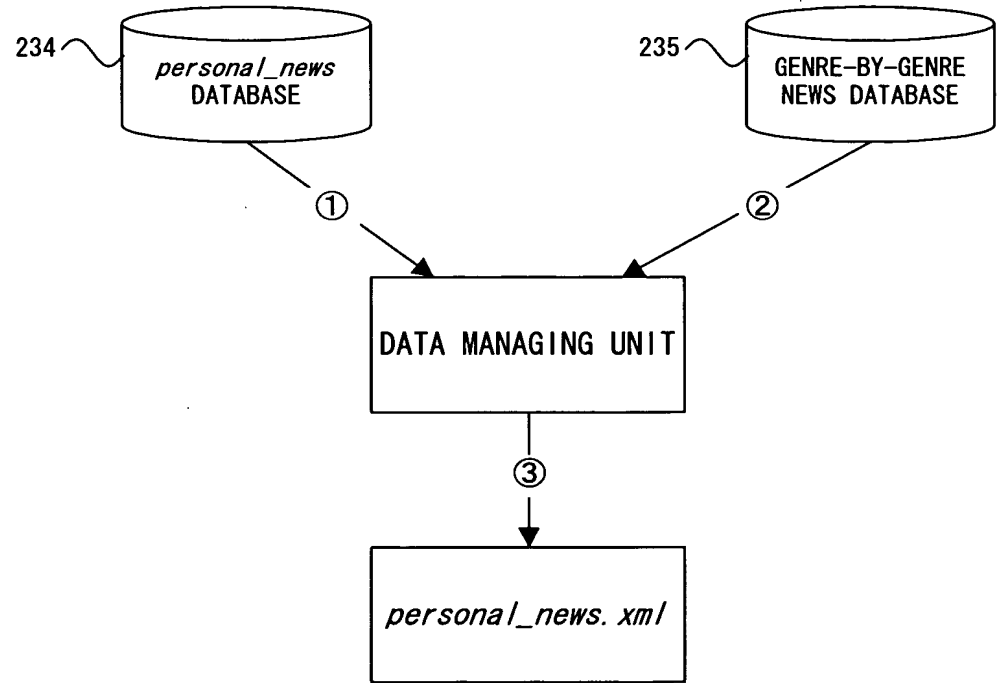
<dialy_news>
<date>2zzz-zz-zz</date>
<edition>zz</edition>
&japan_news;
&news;
</daily_news>
```

FIG. 37

```
<daily_news>
<date>2zzz-zz-zz</date>
<edition>zz</edition>
<japan_news>
```

FIG. 38

DELIVERY ADDRESS	GENRE 1	GENRE 2	. . .	GENRE n
J-1@foo.ne.jp	on	off		on
⋮				
J-n@foo.ne.jp	off	on		off



F I G. 4 0

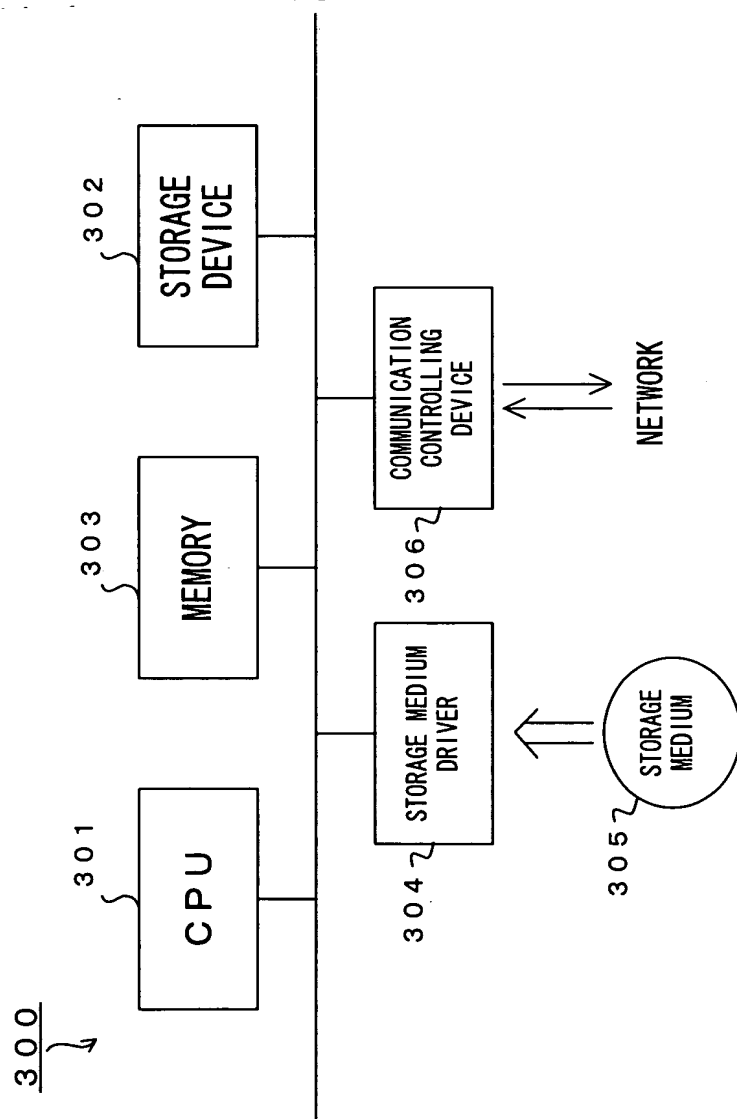
[illegible]

FIG. 41

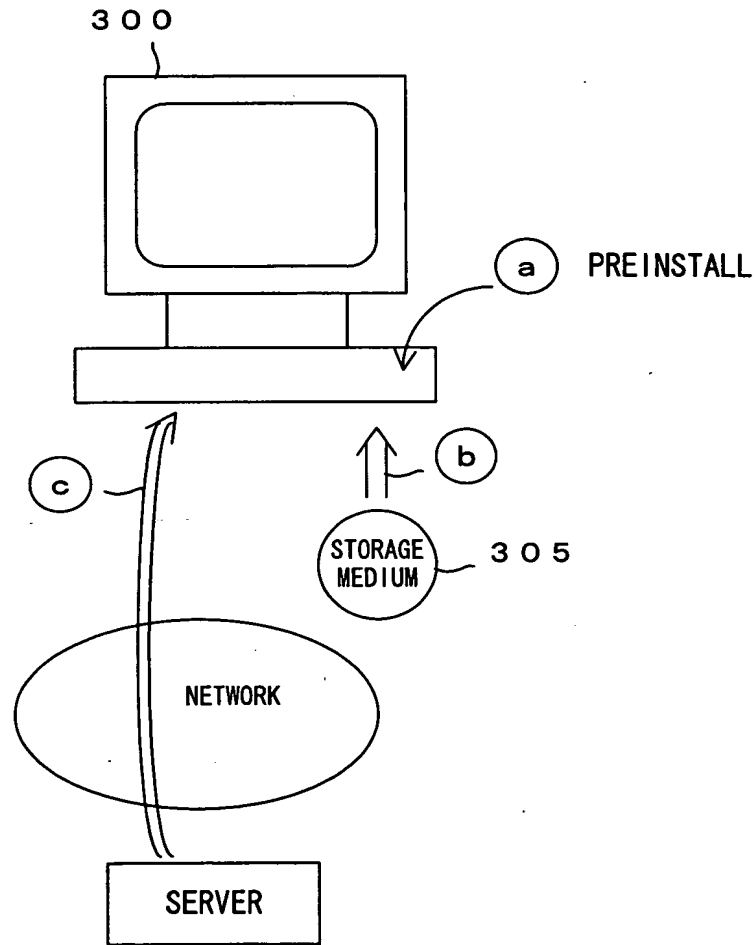


FIG. 42